

Serial No. 08/685,338

Amendment

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further step of annealing the balloon at a second elevated temperature and a second pressure less than the first elevated pressure for a time sufficient to shrink the formed balloon to a second diameter less than the first diameter.

Please add new claims 35-47 as follows:

Sub 35
--35. A balloon for a medical device characterized by an operating pressure to which the balloon may be safely inflated without bursting of at least 12 atmospheres, a diameter at 3 atmospheres of from about 1.5 to about 3.0 mm, a generally linear diameter growth rate over the range of 3-12 atmospheres, and a diameter growth of at least 0.5 mm over the range of 3-12 atm.

36. A balloon for a medical device characterized by an operating pressure to which the balloon may be safely inflated without bursting of at least 12 atmospheres, a diameter at 3 atmospheres of from about 3.0 to about 6.0 mm, a generally linear diameter growth rate over the range of 3-12 atmospheres, and a diameter growth of at least 1.0 mm over the range of 3-12 atm.

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37. A balloon for a medical device characterized by an operating pressure to which the balloon may be safely inflated without bursting of at least 10 atmospheres, a diameter at 3 atmospheres of from about 6 to about 12 mm, a generally linear diameter growth rate over the range of 3-10 atmospheres, and a diameter growth of at least 2 mm over the range of 3-10 atm.

38. A balloon for a medical device characterized by an operating pressure to which the balloon may be safely inflated without bursting of at least 9 atmospheres, a diameter at 3 atmospheres of from about 12 to about 30 mm, a generally linear diameter growth rate over the range of 3-9 atmospheres, and a diameter growth of at least 3 mm over the range of 3-9 atm.

39. A balloon as in claim 38 wherein said diameter growth is at least 4 mm.

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40. A balloon for a medical device characterized by a burst pressure of at least 9 atmospheres, a diameter at 3 atmospheres of about 2 mm or more, and an average compliance over the range of from 3 atmospheres to burst of at least 3% per atmosphere.

41. A balloon as in claim 40 wherein said average compliance over the range of from 3 atmospheres to burst is at least 4% per atmosphere.

42. A balloon as in claim 40 made from thermoplastic polymer material which is a block copolymer, a thermoplastic elastomer, a polymer blend, a random copolymer of rigid and flexible monomers, polyurethanes which have rigid and flexible portions, polyketones, polysulfides or a polyamide homopolymer or copolymer.

43. A balloon as in claim 40 formed from at least two concentric layers of different thermoplastic polymers.

44. A balloon as in claim 40 wherein said diameter at 3 atmospheres is about 5 mm or more.

45. A balloon as in claim 40 wherein said diameter at 3 atmospheres is about 12 mm or more.

46. In a method of treating a gastrointestinal lesion by inserting a catheter having a balloon thereon into the gastrointestinal tract, positioning the balloon at the lesion, inflating the balloon to accomplish treatment of the lesion, deflating the balloon and then withdrawing the catheter, the improvement wherein the balloon is a balloon as in claim 40.

47. A method as in claim 33 wherein the catheter is inserted into the gastrointestinal tract; and withdrawn therefrom, through an endoscope. --